

Claims:

1. A transformer having at least one primary winding and one secondary winding wound about a common axis comprising:

a first bobbin member including

a first body portion defining a first hollow region, and

axially spaced walls extending radially away from the first body portion; and

a second bobbin member including

a second body portion defining a second hollow region,

axially spaced walls extending radially away from the second body portion, and

10 a flange on one of said axially spaced walls and extending away from the other axial spaced wall of the second bobbin member; and

15 wherein the first bobbin member is disposed adjacent to the second bobbin member and is partially enclosed by the flange, said primary and secondary windings respectively wound about said first and second body portions.

2. The transformer of claim 1 wherein the flange includes two flange portions substantially perpendicular to each other.

20 3. The transformer of claim 1 further comprising a conductive shield disposed between the first bobbin member and the second bobbin member.

4. The transformer of claim 1 further comprising a ferrite core disposed within the first and

second hollow regions.

5. The transformer of claim 1 wherein at least one of the walls in each of the first and second bobbin members comprises a slot for receiving the wires of the primary or secondary 5 winding.

6. The transformer of claim 1 wherein each of first and secondary bobbin members comprises a plurality of pins.

7. The transformer of claim 1 wherein the second bobbin member includes a structure for receiving a printed circuit board (PCB), and wherein the structure is disposed on the flange.

8. The transformer of claim 1 wherein the second bobbin member includes a structure for receiving a printed circuit board (PCB), and wherein the structure is disposed on a side region of 15 the transformer.

9. The transformer of claim 1 wherein the first bobbin member includes a tubular portion 20 extending away from the first body portion and is disposed to receive a core passing through the first hollow region.

10. A transformer having at least one primary winding and one secondary winding wound about a common axis comprising:

a first bobbin member including

a first body portion defining a first hollow region,

5 axially spaced walls extending radially away from the first body portion, and

a structure adapted to receive a printed circuit board (PCB) so that the printed

circuit board is disposed parallel to the walls of the first bobbin member; and

a second bobbin member including

a second body portion defining a second hollow region which is aligned with the

10 first hollow region, and

axially spaced walls extending radially away from the second body portion,

wherein the first bobbin member is disposed adjacent to the second bobbin

member, the primary and secondary windings respectively wound about said first and second
15 body portions.

11. The transformer of claim 10 further comprising a core, wherein the core passes through
the first and second hollow regions.

12. The transformer of claim 10 wherein the first bobbin member further includes a tubular
20 portion extending away from the first body portion and is disposed to receive a core passing
through the first hollow region.

13. The transformer of claim 12 wherein the second bobbin member further comprises a recess, wherein the recess is cooperatively arranged with the tubular portion and is adapted to receive the tubular portion.

14. The transformer of claim 10 wherein the second bobbin member further comprises a plurality of pins.

15. A transformer comprising:

a first bobbin member including

a first body portion defining a first hollow region,

axially spaced walls extending radially away from the first body portion, and

a flange for increasing the creepage distance between a core disposed within the first hollow region and a coil disposed between the axially spaced walls; and

a second bobbin member including

a second body portion defining a second hollow region, and

axially spaced walls extending radially away from the second body portion.

16. A transformer assembly adapted to receive at least one primary winding and one secondary winding wound about a common axis comprising:

a first bobbin member including

a first body portion defining a first hollow region, and

5 axially spaced walls extending radially away from the first body portion; and

a second bobbin member including

a second body portion defining a second hollow region,

~~axially spaced walls extending radially away from the second body portion, and~~

a flange mounted on one of said axially spaced walls and extending away from

10 said other axial spaced wall of said second bobbin member; and

wherein the first bobbin member is disposed adjacent to the second bobbin member and is partially enclosed by the flange, said primary and secondary windings respectively wound about said first and second body portions.

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